



## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1515 Wynkoop St Suite 700  
Denver CO 80202

ATTN: Clayton Camozzi

### **Wayne Funk #2-32**

#### **32-15s-15w Russell,KS**

Start Date: 2012.02.28 @ 15:16:56

End Date: 2012.02.28 @ 21:18:56

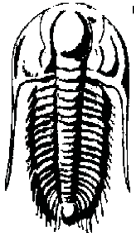
Job Ticket #: 46400                      DST #: 2

Trilobite Testing, Inc

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Printed: 2012.03.06 @ 14:54:11



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# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

**32-15s-15w Russell,KS**

1515 Wynkoop St Suite 700  
Denver CO 80202

**Wayne Funk #2-32**

Job Ticket: 46400

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2012.02.28 @ 15:16:56

## GENERAL INFORMATION:

Formation: **Lansing G-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:51:26

Time Test Ended: 21:18:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3280.00 ft (KB) To 3336.00 ft (KB) (TVD)**

Reference Elevations: 1900.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1890.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8321**

**Inside**

Press@RunDepth: 41.16 psig @ 3286.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.28

End Date:

2012.02.28

Last Calib.:

2012.02.28

Start Time:

15:16:57

End Time:

21:18:56

Time On Btm:

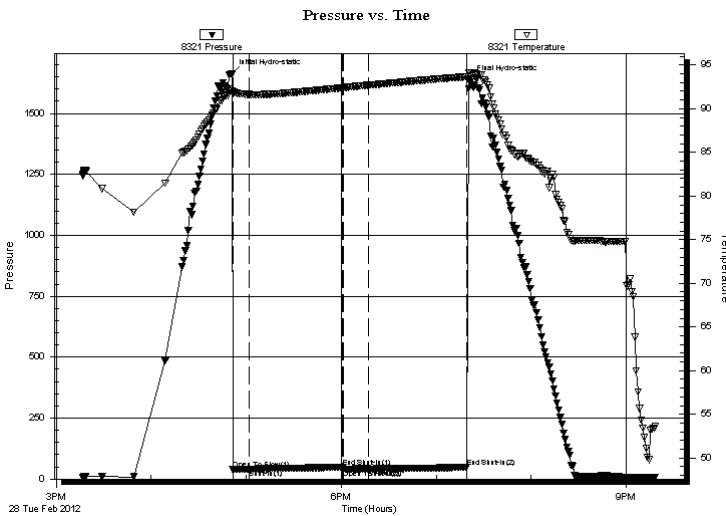
2012.02.28 @ 16:50:56

Time Off Btm:

2012.02.28 @ 19:20:56

**TEST COMMENT:** IFP-10-min-Weak blow built to 1/8 in  
ISI-60-Min-Dead no blow back  
FFP-15-min-Dead no blow  
FSI-60-min Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1661.27	92.04	Initial Hydro-static
1	38.43	91.67	Open To Flow (1)
11	40.58	91.63	Shut-In(1)
70	49.36	92.40	End Shut-In(1)
71	40.68	92.41	Open To Flow (2)
86	41.16	92.68	Shut-In(2)
149	48.68	93.67	End Shut-In(2)
150	1639.51	94.07	Final Hydro-static

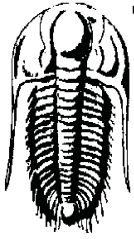
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w with a scum of oil	0.01

\* Recovery from multiple tests

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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Job Ticket: 46400

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2012.02.28 @ 15:16:56

**GENERAL INFORMATION:**

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Time Tool Opened: 16:51:26

Time Test Ended: 21:18:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3280.00 ft (KB) To 3336.00 ft (KB) (TVD)**

Reference Elevations: 1900.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1890.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8679 Fluid**

Press@RunDepth: psig @ 3245.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.28

End Date: 2012.02.28

Last Calib.: 2012.02.28

Start Time: 15:16:39

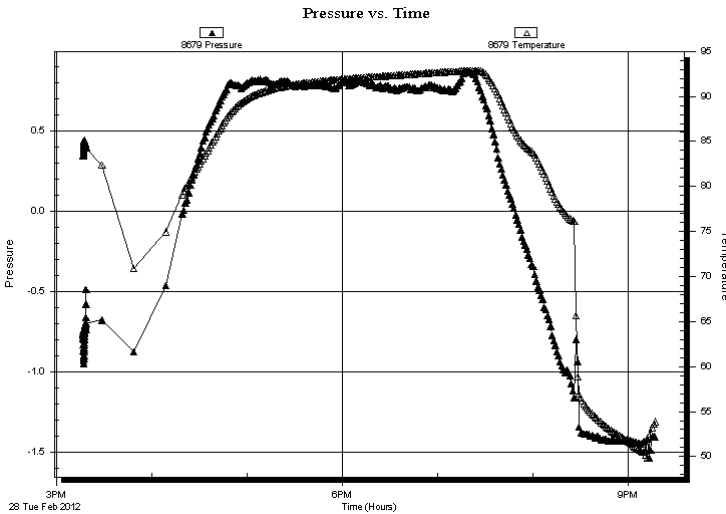
End Time: 21:17:08

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IFP-10-min-Weak blow built to 1/8 in  
ISI-60-Min-Dead no blow back  
FFP-15-min-Dead no blow  
FSI-60-min Dead no blow back

**PRESSURE SUMMARY**



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

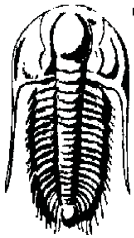
**Recovery**

Length (ft)	Description	Volume (bbl)
1.00	Mud w ith a scum of oil	0.01

\* Recovery from multiple tests

**Gas Rates**

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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TESTING, INC.**

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**32-15s-15w Russell, KS**

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Denver CO 80202

**Wayne Funk #2-32**

ATTN: Clayton Camozzi

Job Ticket: 46400

**DST#: 2**

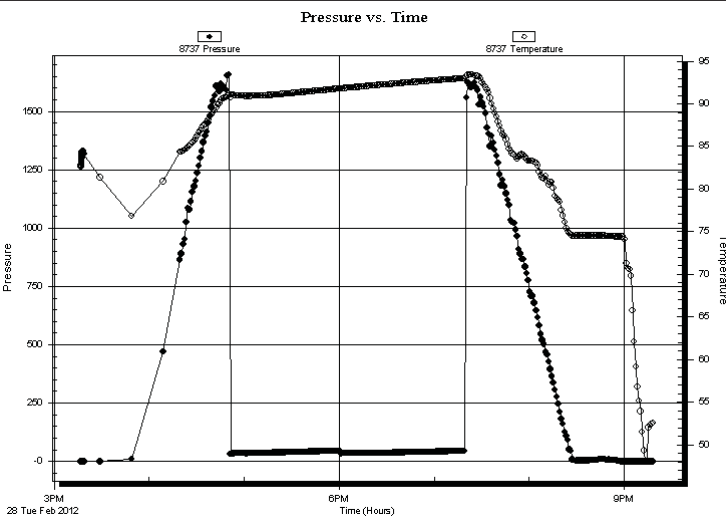
Test Start: 2012.02.28 @ 15:16:56

## GENERAL INFORMATION:

Formation: **Lansing G-I**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 16:51:26  
 Tester: Jeff Brown  
 Time Test Ended: 21:18:56  
 Unit No: 44  
 Interval: **3280.00 ft (KB) To 3336.00 ft (KB) (TVD)**  
 Reference Elevations: 1900.00 ft (KB)  
 Total Depth: 3336.00 ft (KB) (TVD)  
 1890.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 10.00 ft

**Serial #: 8737 Outside**  
 Press@RunDepth: psig @ 3286.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.02.28 End Date: 2012.02.28 Last Calib.: 2012.02.28  
 Start Time: 15:16:58 End Time: 21:18:57 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IFP-10-min-Weak blow built to 1/8 in  
 ISI-60-Min-Dead no blow back  
 FFP-15-min-Dead no blow  
 FSI-60-min Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

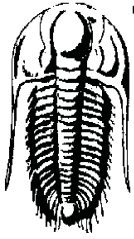
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w ith a scum of oil	0.01

\* Recovery from multiple tests

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr & Associates

**32-15s-15w Russell, KS**

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Denver CO 80202

**Wayne Funk #2-32**

Job Ticket: 46400

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2012.02.28 @ 15:16:56

## Tool Information

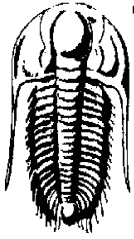
Drill Pipe:	Length: 3257.00 ft	Diameter: 3.80 inches	Volume: 45.69 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3280.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8679	Fluid	3245.00	
Stubb	5.00			3250.00	
Shut In Tool	5.00			3255.00	
Sampler	3.00			3258.00	
Hydraulic tool	5.00			3263.00	
Jars	5.00			3268.00	
Safety Joint	3.00			3271.00	
Packer	4.00			3275.00	35.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Stubb	1.00			3281.00	
Perforations	4.00			3285.00	
Change Over Sub	1.00			3286.00	
Recorder	0.00	8321	Inside	3286.00	
Recorder	0.00	8737	Outside	3286.00	
Drill Pipe	31.00			3317.00	
Change Over Sub	1.00			3318.00	
Perforations	15.00			3333.00	
Bullnose	3.00			3336.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 91.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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1515 Wynkoop St Suite 700  
Denver CO 80202

**Wayne Funk #2-32**

Job Ticket: 46400

**DST#: 2**

ATTN: Clayton Camozzi

Test Start: 2012.02.28 @ 15:16:56

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud with a scum of oil	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3500 mL of mud with a scum of oil 20 PSI

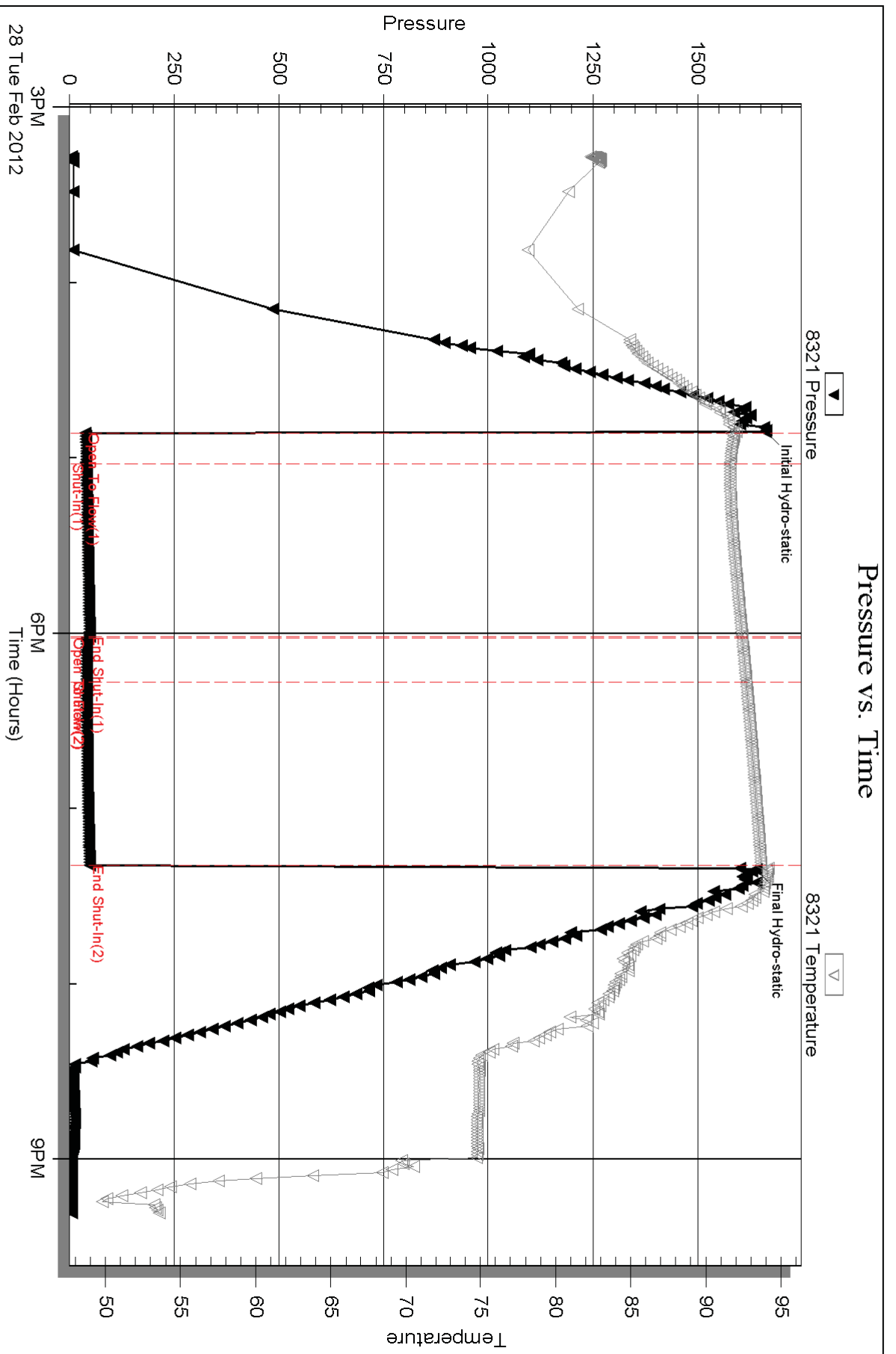
Serial #: 8321

Inside

Samuel Gary Jr & Associates

Wayne Funk #2-32

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46400

Printed: 2012.03.06 @ 14:54:13

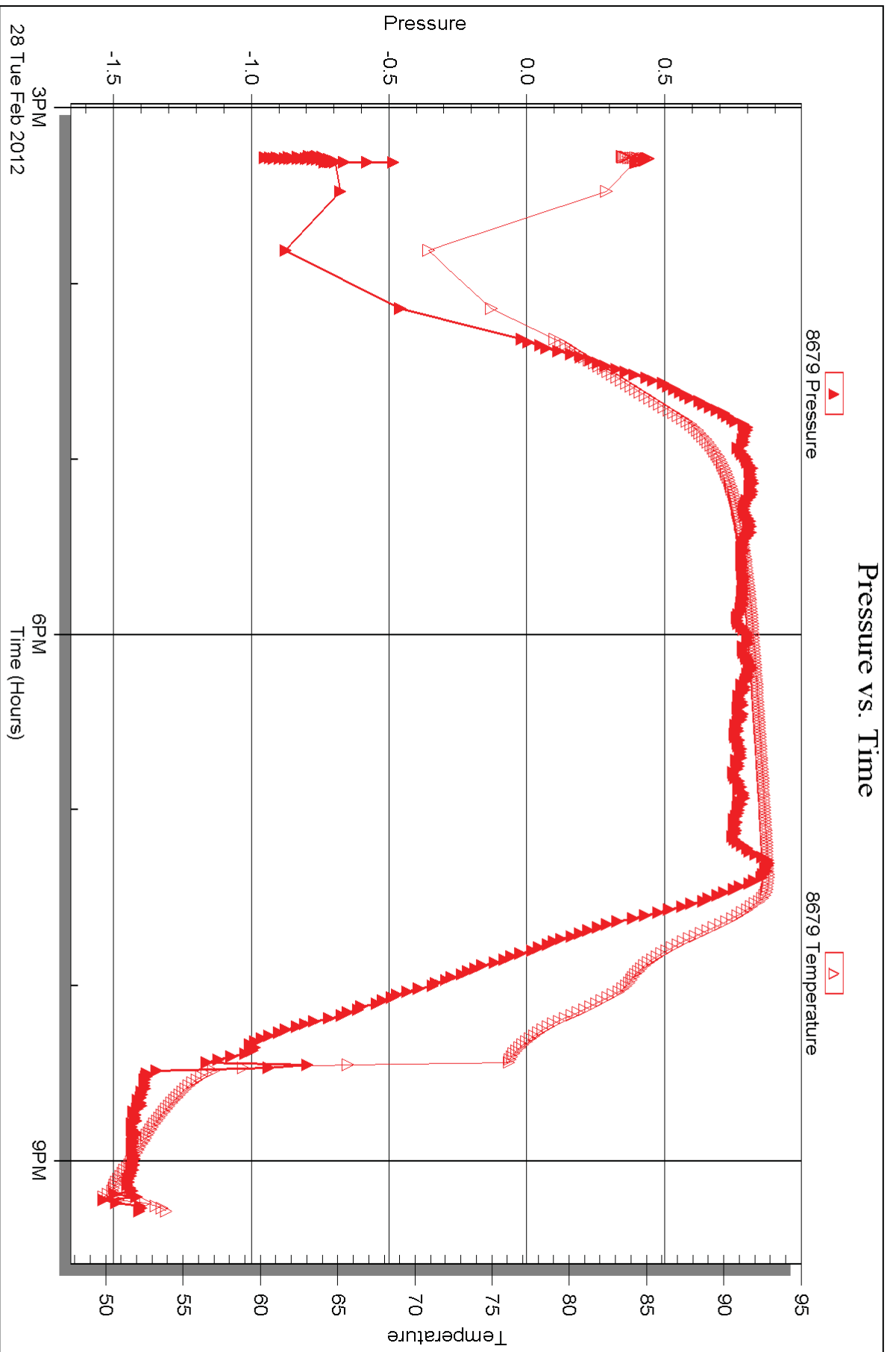
Serial #: 8679

Fluid

Samuel Gary Jr & Associates

Wayne Funk #2-32

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46400

Printed: 2012.03.06 @ 14:54:13



Serial #: 8737

Outside Samuel Gary Jr & Associates

Wayne Funk #2-32

DST Test Number: 2

